

Declaration of Performance

DOP cert number: CelsaUK001

1. Product name and identification code :

Hot rolled products of structural steels, EN 10025-1:2004,
Types S235/S275/S355,
Grades JR/JO/J2

2. Name and Manufactures address :

Celsa Manufacturing (UK) limited
Building 58
Castle Works
East Moors Road
Cardiff
CF24 5NN
(UK)

3. Intended use :

To be used in Fabricated, Bolted and Riveted Structures

4. System of assessment and verification of constancy of performance of the product :

System 2+

5. Notified body:

Lloyds Register Verification Limited, notified body No. 0038

Assessment and evaluation of factory production control for the system 2+
Factory Production Control certificate 0038/CPD/20060005/A, issued on 25th May 2006.

The performance of the product identified in point 1 are in line with the performance declared in point 6.

This declaration of performance is issued under the sole responsibility of the manufacturer indicated in point 2.

6. Declared Performance

| Essential Characteristics | Performance | | Harmonised technical Specification | | | | | | |
|------------------------------------|------------------|---------------------------|------------------------------------|----------|----------|---------|---------|-----------------|----------|
| Dimensional and shape tolerances | EN 10056-1 | | Equal and Unequal Angles | | | | | | |
| | EN 10058 | | Flats | | | | | | |
| | EN 10060 | | Merchant Round Bars | | | | | | |
| | EN 10279 | | Channels | | | | | | |
| | | | | | | | | | |
| Elongation (%) | Type and Grade | Normal Thickness (mm) | | | | | | | |
| | | ≤40 | | | | | | | |
| | S235JR/JO | 26 | | | | | | | |
| | S275JR/JO | 23 | | | | | | | |
| | S355JR/JO/J2 | 22 | | | | | | | |
| | | | | | | | | | |
| Tensile strength (MPa) | Type and Grade | Normal Thickness (mm) | | | | | | | |
| | | ≤100 | | | | | | | |
| | S235 JR / JO | 360 to 510 | | | | | | | |
| | S275 JR / JO | 410 to 560 | | | | | | | |
| | S355 JR / JO/ J2 | 470 to 630 | | | | | | | |
| | | | | | | | | | |
| Yield Strength (MPa) | Type and Grade | Normal Thickness (mm) | | | | | | EN 10025-1:2004 | |
| | | ≤16 | >16≤40 | | | | | | |
| | S235 JR / JO | 235 | 225 | | | | | | |
| | S275 JR / JO | 275 | 265 | | | | | | |
| | S355 JR / JO/ J2 | 355 | 345 | | | | | | |
| | | | | | | | | | |
| Impact Strength (J) | Type and Grade | Temperature (°C) | Normal Thickness (mm) | | | | | | |
| | | | ≤150 | | | | | | |
| | S235/S275/355 JR | 20 | 27 | | | | | | |
| | S235/S275/355 JO | 0 | 27 | | | | | | |
| | S355 J2 | -20 | 27 | | | | | | |
| | | | | | | | | | |
| Weldability (Chemical composition) | Type and Grade | CEV% Max | | | | | | | |
| | | Normal Thickness (mm) ≤40 | | | | | | | |
| | S235 JR / JO | 0.35 | | | | | | | |
| | S275 JR / JO | 0.40 | | | | | | | |
| | S355 JR / JO/ J2 | 0.45 | | | | | | | |
| | | | | | | | | | |
| Durability (Chemical composition) | Type and grade | C % max | | Si % max | Mn % max | P % max | S % max | N % max | Cu % max |
| | | ≤16mm | >16≤40mm | | | | | | |
| | S235JR | 0.19 | 0.19 | --- | 1.50 | 0.045 | 0.045 | 0.014 | 0.60 |
| | S235JO | 0.19 | 0.19 | --- | 1.50 | 0.040 | 0.040 | 0.014 | 0.60 |
| | S275JR | 0.24 | 0.24 | --- | 1.60 | 0.045 | 0.045 | 0.014 | 0.60 |
| | S275JO | 0.21 | 0.21 | --- | 1.60 | 0.040 | 0.040 | 0.014 | 0.60 |
| | S355JR | 0.27 | 0.27 | --- | 1.70 | 0.045 | 0.045 | 0.014 | 0.60 |
| | S355JO | 0.23 | 0.23 | 0.60 | 1.70 | 0.040 | 0.040 | 0.014 | 0.60 |
| | S355J2 | 0.23 | 0.23 | 0.60 | 1.70 | 0.035 | 0.035 | --- | 0.60 |
| | | | | | | | | | |

Signed for and on behalf of the manufacturer:



Stuart Thomas
Quality Manager
Cardiff, 17th July 2013